WHAT IS CLAIMED IS:

1	1. An apparatus for carrying a load during a medical procedure, the			
2	apparatus comprising:			
3	a base;			
4	an articulating arm having a distal end and a proximal end secured in a			
5	movable fashion to said base;			
6	at least one positional encoder coupled to said arm;			
7	a receptacle at the distal end for carrying an effector;			
8	means for load balancing said arm when said effector is engaged; and			
9	a controller coupled to the positional encoder(s) to track the position of the			
10	arm in real time.			
1	2. The apparatus as described in claim 1, wherein said controller is a			
2	closed loop control device.			
۷	closed toop control device.			
1	3. The apparatus as described in claim 1, wherein said controller is a			
2	position tracking device.			
i	4. The apparatus as described in claim 2, wherein said closed loop control			
2	device is also able to track orientation of the arm in real time.			
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1	5. The apparatus as described in claim 1, wherein the means for load			
2	balancing is a robotic driver in electronic communication with said positional encoder(s)			
3	wherein the robotic driver can position the articulating arm according to a set of input			
4	commands.			
1	6. The apparatus as described in claim 4, wherein said input commands			
2	further comprises a series of movement commands for said robotic driver.			
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1	7. The apparatus as described in claim 1, wherein the means for load			
2	balancing is one or more passive force generating device(s).			
1	8. The apparatus as described in claim 1, wherein the means for load			
2	balancing is one or more active force generating device(s).			

9. The apparatus as described in claim 1, wherein the means for load 1 balancing is a combination of one or more passive force generating device(s) and one or more 2 3 active force generating device(s). 1 10. The apparatus as described in claim 1, wherein the means for load 2 balancing is one or more cooperative motors. 1 The apparatus as described in claim 1, wherein the means for load 11. 2 balancing is a plurality of springs and counter balancing weights. 12. The apparatus as described in claim 1, wherein the medical procedure 1 2 is a procedure for the reduction in adipose tissue. 1 The apparatus as described in claim 1, wherein the therapy head 13. 2 includes a high intensity focused ultrasound transducer. 14. The apparatus as described in claim 1, wherein said encoders are in 1 2 electronic communication with a computer, and said computer controls said means for load 3 balancing. 15. The apparatus as described in claim 1 further comprising a feather 1 2 touch. 1 16. The apparatus as described in claim 1, wherein said base is anchored to 2 a wall, ceiling or other fixture. 1 17. The apparatus as described in claim 1, wherein said base is a cart. 1 18. The apparatus as described in claim 1, wherein said base is anchored to 2 an examination table. 1 19. The apparatus as described in claim 1, wherein encoder(s) are 2 rotational encoders incorporated into one or more joints of said articulating arm. 1 20. The apparatus as described in claim 1, wherein said encoder(s) are 2 linear encoders.

1		21.	The apparatus as described in claim 1, wherein said encoder(s) are one		
2	or more position sensors.				
1 2	sensor.	22.	The apparatus as described in claim 1, further comprising a motion		
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1		23.	An apparatus for precise positioning of a medical device comprising:		
2		a base			
3		a robotic articulating arm having a base end attached to said base and an			
4	unsecured end attached to an effector capable of holding one or more medical devices;				
5			et one position sensor located substantially near said unsecured end and		
6	capable of determining the precise position of said effector relative to a patient and said base;				
7	and				
8		a cont	roller in electronic communication with said motion sensor;		
9	wherein the controller utilizes data from the sensor to control the robotic				
10	articulating arm to maintain the location of the one or more medical device relative to a				
11	patient in real	time.			
l		24.	The apparatus as described in claim 23, wherein the base is		
2	anchored to a		•		
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1		25.	The apparatus as described in claim 23, wherein said robotic		
2	articulating as	rm has a	a plurality of arm segments separated by a joint between each said arm		
3	segment.				
1		26.	The apparatus as described in claim 23, wherein the motion sensor		
2	tracks the pos	sition of	each joint of said articulating arm in addition to the procedural end.		
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1		27.	The apparatus as described in claim 23, wherein said one or more		
2	medical device	es may	be positionally controlled through said controller.		
1		28.	The apparatus as described in claim 23, wherein the controller is a		
2	computer util	izing a	robotic software controller (PLC).		
1		29.	The apparatus as described in claim 23, wherein said one or more		

medical devices consists of at least one ultrasound transducer.

1	30	The apparatus as described in claim 29, wherein said ultrasound			
2	transducer is a therapeutic ultrasound transducer.				
1	31	The apparatus as described in claim 23, further comprising a joint			
1					
2		and said base end, so that said base end may be positioned relative to said			
3	base.				
1	32	The apparatus as described in claim 23, wherein said articulating arm			
2	is a telescoping a	m.			
1	33				
2	articulating arm is moveable relative to said base.				
1	34	. The apparatus as described in claim 23, further comprising an			
2	examination table.				
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1	35	The apparatus as described in claim 23, wherein the robotic arm may			
2	be manually moved with in a programmed limited space, and the articulating elements				
3	prevent any manu	al movement outside the pre-programmed field of movement.			
1	36	The apparatus as described in claim 23, wherein the base is a fixture.			
1	30	. The apparatus as described in claim 23, wherein the base is a fixture.			
1	37	The apparatus as described in claim 36, wherein the fixture is a wall,			
2	floor or ceiling of a room.				
1	38				
2	generating device comprising the steps of:				
3	` '	determining a desired position for said articulating arm;			
4	`	converting said desired position to a plurality of component coordinates;			
5	(c)	calculating a first time position coordinate for each of said plurality of			
6	components;				
7	(d)	transmitting a force changing command to said force generating device;			
8	(e)	calculating a subsequent time position coordinate for each said plurality of			
9	components;				
10	(f)	comparing said subsequent time position coordinate to said desired			
11	position; and				

- (g) adjusting said force changing commands until said articulating armachieves said desired position.
- 1 39. A method as in claim 38, wherein adjusting said force changing commands occurs continuously.